<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/562,415_

Source: _1Fwp_

Date Processed by STIC: _1/9/06_

ENTERED

IFWP

RAW SEQUENCE LISTING   DATE: 01/09/2006
PATENT APPLICATION: US/10/562,415   TIME: 11:30:53

Input Set : A:\08321.0148PC1.TXT
Output Set: N:\CRF4\01092006\J562415.raw

```
       4 <110> APPLICANT: THOMAS JEFFERSON UNIVERSITY
       5        THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
       6        Kathleen Delgrosso
       7        Paolo Fortina
       8        David Graves
       9        Saul Surrey
      11 <120> TITLE OF INVENTION: Methods For Detecting Nucleic Acid
      12        Variations
      14 <130> FILE REFERENCE: 08321-0148 PC1
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/562,415
C--> 16 <141> CURRENT FILING DATE: 2005-12-23
      16 <150> PRIOR APPLICATION NUMBER: 60/483,352
      17 <151> PRIOR FILING DATE: 2003-06-27
      19 <160> NUMBER OF SEQ ID NOS: 37
      21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
      23 <210> SEQ ID NO: 1
      24 <211> LENGTH: 20
      25 <212> TYPE: DNA
      26 <213> ORGANISM: Artificial Sequence
      28 <220> FEATURE:
      29 <223> OTHER INFORMATION: barcode sequence
      31 <400> SEQUENCE: 1
      32 aatgctcggg aaggctactc                                        20
      34 <210> SEQ ID NO: 2
      35 <211> LENGTH: 20
      36 <212> TYPE: DNA
      37 <213> ORGANISM: Artificial Sequence
      39 <220> FEATURE:
      40 <223> OTHER INFORMATION: barcode sequence
      42 <400> SEQUENCE: 2
      43 atcccgtgag tcgatggttt                                        20
      45 <210> SEQ ID NO: 3
      46 <211> LENGTH: 20
      47 <212> TYPE: DNA
      48 <213> ORGANISM: Artificial Sequence
      50 <220> FEATURE:
      51 <223> OTHER INFORMATION: barcode sequence
      53 <400> SEQUENCE: 3
      54 cgcaccgcag tttggtcaat                                        20
      56 <210> SEQ ID NO: 4
      57 <211> LENGTH: 20
      58 <212> TYPE: DNA
      59 <213> ORGANISM: Artificial Sequence
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61 <220> FEATURE:
62 <223> OTHER INFORMATION: barcode sequence
64 <400> SEQUENCE: 4
65 agcccggtct catcgttgtt                                           20
67 <210> SEQ ID'NO: 5
68 <211> LENGTH: 20
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: barcode sequence
75 <400> SEQUENCE: 5
76 atcgtacttg gcactggagt                                           20
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 20
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: barcode sequence
86 <400> SEQUENCE: 6
87 gcccaaataa gacgtgagcc                                           20
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 20
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: barcode sequence
97 <400> SEQUENCE: 7
98 tccgacgcaa caatagggca                                           20
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 20
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: barcode sequence
108 <400> SEQUENCE: 8
109 cctgctcgac aactagaaga                                          20
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 20
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: barcode sequence
119 <400> SEQUENCE: 9
120 ccgcgaccag aattagatta                                          20
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 20
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
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128 <223> OTHER INFORMATION: barcode sequence
130 <400> SEQUENCE: 10
131 gcctcgtcga aattatcaca                                    20
133 <210> SEQ ID NO: 11
134 <211> LENGTH: 20
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: barcode sequence
141 <400> SEQUENCE: 11
142 ccatcgcacg aatgtagtac                                    20
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 20
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: barcode sequence
152 <400> SEQUENCE: 12
153 gtactacatt cgtgcgatgg                                    20
155 <210> SEQ ID NO: 13
156 <211> LENGTH: 20
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: PCR forward primer for IBD 268 SNP
163 <400> SEQUENCE: 13
164 ctggttaggt cccgtcttca                                    20
166 <210> SEQ ID NO: 14
167 <211> LENGTH: 19
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: PCR reverse primer for IBD 268 SNP
174 <400> SEQUENCE: 14
175 acagtgtccg catcgtcat                                     19
177 <210> SEQ ID NO: 15
178 <211> LENGTH: 45
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: contains barcode and LCR 5' primer to normal IBD
184       268 SNP
186 <400> SEQUENCE: 15
187 gagtagcctt cccgagcatt gggtggctgg gctcttctgc ggggg         45
189 <210> SEQ ID NO: 16
190 <211> LENGTH: 45
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
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```
195 <223> OTHER INFORMATION: contains barcode and LCR 5' primer to mutant IBD
196       268 SNP
198 <400> SEQUENCE: 16
199 aaaccatcga ctcacgggat gggtggctgg gctcttctgc gggga                45
201 <210> SEQ ID NO: 17
202 <211> LENGTH: 45
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: LCR common 3' primer to IBD 268 SNP
209 <400> SEQUENCE: 17
210 tccagccatg cccacatctg cccaggtact acattcgtgc gatgg                45
212 <210> SEQ ID NO: 18
213 <211> LENGTH: 19
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: PCR forward primer for IBD 908 SNP
220 <400> SEQUENCE: 18
221 gatggaggca ggtccactt                                             19
223 <210> SEQ ID NO: 19
224 <211> LENGTH: 20
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: PCR reverse primer for IBD 908 SNP
231 <400> SEQUENCE: 19
232 cacctgatct ccccaagaaa                                            20
234 <210> SEQ ID NO: 20
235 <211> LENGTH: 45
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: contains barcode and LCR 5' primer to normal IBD
241       908 SNP
243 <400> SEQUENCE: 20
244 attgaccaaa ctgcggtgcg ccccctcgtc acccactctg ttgcc                45
246 <210> SEQ ID NO: 21
247 <211> LENGTH: 45
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: contains barcode and LCR 5' primer to mutant IBD
253       908 SNP
255 <400> SEQUENCE: 21
256 aacaacgatg agaccgggct ccccctcgtc acccactctg ttgcg                45
258 <210> SEQ ID NO: 22
259 <211> LENGTH: 45
260 <212> TYPE: DNA
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261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: LCR common 3' primer to IBD 908 SNP
266 <400> SEQUENCE: 22
267 ccagaatctg aaaaggccaa aagaggtact acattcgtgc gatgg              45
269 <210> SEQ ID NO: 23
270 <211> LENGTH: 19
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: PCR forward primer for IBD InsC SNP
277 <400> SEQUENCE: 23
278 ggacaggtgg gcttcagta                                           19
280 <210> SEQ ID NO: 24
281 <211> LENGTH: 20
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: PCR reverse primer for IBD InsC SNP
288 <400> SEQUENCE: 24
289 cctcaaaatt ctgccattcc                                          20
291 <210> SEQ ID NO: 25
292 <211> LENGTH: 45
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: contains barcode and LCR 5' primer to normal IBD
298       InsC SNP
300 <400> SEQUENCE: 25
301 actccagtgc caagtacgat tccaggatgg tgtcattcct ttcaa             45
303 <210> SEQ ID NO: 26
304 <211> LENGTH: 45
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: contains barcode and LCR 5' primer to mutant IBD
310       InsC SNP
312 <400> SEQUENCE: 26
313 ggctcacgtc ttatttgggc ccaggatggt gtcattcctt tcaag             45
315 <210> SEQ ID NO: 27
316 <211> LENGTH: 45
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: CR common 3' primer to IBD InsC SNP
323 <400> SEQUENCE: 27
324 gggtctgcag gagggcttct gccccgtact acattcgtgc gatgg             45
326 <210> SEQ ID NO: 28
327 <211> LENGTH: 20
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L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date